### Trailer and modifier details (as applicable)

|  |  |  |
| --- | --- | --- |
| Vehicle make: | Vehicle model: | Month and year of manufacture: |
|  |  |  |
| VIN (if applicable): | Vehicle chassis no. (if applicable): | Vehicle modifier (company name): |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Wheelbase: | | Forward radius: | | | | Rear overhang: | | | Tow coupling overhang: | | | Drawbar length: | |
|  | mm |  | | | mm |  | | mm |  | mm | |  | mm |
| Point of articulation to rear overhang line: | | | | **Modified ATM:** | | | | **Modified GTM:** | | | | **Tare mass:** | |
|  | | | mm |  | | | kg |  | | | kg |  | kg |

### Trailer component details

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Component details: | | | | | | | | | | | | | | | | | | | | | | |
| Component | | Make/model | | | | | | | | | | | Compliance mark approval (SARN) | | | | | | | | | Load rating |
| Control system | |  | | | | | | | | | | |  | | | | | | | | |  |
| Braked axles | |  | | | | | | | | | | |  | | | | | | | | | kg |
| Front suspension | |  | | | | | | | | | | |  | | | | | | | | | kg |
| Rear suspension | |  | | | | | | | | | | |  | | | | | | | | | kg |
| Tyre size | |  | | | | | | | | | | |  | | | | | | | | | kg |
| Axle group: front | | Axle number 1 | | | | Axle number 2 | | | | | | Axle number 3 | | | | | | | | Axle group load | | |
| Brake chamber size | |  | | | |  | | | | | |  | | | | | | | | kg | | |
| Slack adjuster length | |  | | | |  | | | | | |  | | | | | | | |
| Axle group: rear | | Axle number 1 | | | Axle number 2 | | | | Axle number 3 | | | | | | Axle number 4 | | | | | Axle group load | | |
| Brake chamber size | |  | | |  | | | |  | | | | | |  | | | | | kg | | |
| Slack adjuster length | |  | | |  | | | |  | | | | | |  | | | | |
| Chassis construction | |  | | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | | |
| Tow couplings | | Make | | | | | | Model | | | | | | | | D-rating | | | | | | |
| Front tow coupling / fifth wheel | |  | | | | | |  | | | | | | | | kN | | | | | | |
| Rear tow coupling / fifth wheel | |  | | | | | |  | | | | | | | | kN | | | | | | |
| Brake timing test (if applicable): | | Application time: | | | | | | | | | | | | | | | Release time: | | | | | |
| Rear brake chamber | | ms | | | | | | | | | | | | | | ms | | | | | | |
| Rear coupling to test cylinder | | ms | | | | | | | | | | | | | | ms | | | | | | |
| Calculated braking performance: | | | | | | | | | | | | | | | | | | | | | | |
| Calculated ERC deceleration performance relative to Australian Design Rule (ADR) 38/.. upper and lower boundaries at different control signal strengths. | | | | | | | | | | | | | | | | | | | | | | |
| Control signal 'E' | 0.2 | | | 0.4 | | | | | | | 0.6 | | | | | | | 0.8 | | | 1.0 | |
| Control signal kPa | 130 | | | 260 | | | | | | | 390 | | | | | | | 520 | | | 650 | |
| Calculated ERC |  | | |  | | | | | | |  | | | | | | |  | | |  | |
| Parking grade percent at modified ATM | | | | Emergency skid limit | | | | | | | | | | | | | | | Certified suspension skid limit | | | |
|  | | | % |  | | | | | | | | | | | | | | |  | | | |
| All trailers: | | | | Dog trailer: | | | | | | | | | | | | | | | | | | |
| Axle fade rating required (tonnes) | | | | Front friction utilisation | | | | | | | | | | | | | | | Rear friction utilisation | | | |
|  | | | |  | | | at | | |  | | | | ERC | | | | |  | | | |

### Trailer component details

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **If you answer NO to any question below, the modification is not acceptable.** Check Yes, No, N/A as applicable: | | Yes | | No | | N/A | |
| 1 | Have all calculations or manufacturer’s specifications required to establish the modified ATM been retained for future audit? | |  | |  | |  |
| 2 | Has the chassis construction been assessed (by calculations) to be adequate for the modified axle group loads and ATM? | |  | |  | |  |
| 3 | Are the requirements of ADR 38/.. met including for ERC, emergency skid limits, friction utilisation and axle fade rating ? | |  | |  | |  |
| **4** | Does the parking brake ability exceed 18% gradient at the modified ATM? | |  | |  | |  |
| **5** | Are the brake application and release times (if applicable) within the permitted limits? | |  | |  | |  |
| 6 | Has the tyre placard, if fitted, been updated where necessary to record the correct tyre and rim sizes, axle configurations, axle loads and inflation pressures for the modified vehicle? | |  | |  | |  |
| **7** | Are tyres and rims fitted in accordance with the tyre placard? | |  | |  | |  |
| 8 | Do the fifth wheel and fifth wheel mounting meet the requirements of ADR 62/.. and ADR 63/…? | |  | |  | |  |
| **9** | Do the tow coupling, tow coupling mounting and drawbar (if applicable) meet the requirements of ADR 62/.. and ADR 63/…? | |  | |  | |  |
| **10** | Does the trailer comply with all applicable ADR requirements at the revised road train rating? | |  | |  | |  |
| 11 | Are the trailer dimensions within the permitted maximum limits? | |  | |  | |  |
| **12** | Are road train signs fitted in accordance with Section 9 ‘Dimension and signage requirement’of Modification Code S9? | |  | |  | |  |

### Advanced braking systems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Braking systems** Check Yes, No, N/A as applicable: | | Yes | No | N/A |
| 1 | Is the advanced braking system (where fitted) un-affected or re-certified after the vehicle modification? |  |  |  |

### Modification details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Modification criteria** Check Yes or No as applicable: | | Yes | No |  |
| 1 | Has the modification been performed in accordance with the manufacturer’s guidelines? |  |  |  |

### Compliance

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Modification** Check Yes or No as applicable: | | Yes | No |  |
| 1 | Does this modification meet all the requirements of the manufacturer’s guidelines / Modification Code S7? |  |  |  |
| 2 | Is the quality of the work to an accepted industry standard? |  |  |  |
| 3 | Does the vehicle continue to comply with ADRs and heavy vehicle standards regulations affected by the modification? |  |  |  |

### Authorisation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Other than modification criteria, if the answer to any relevant question is NO the modification is not acceptable.** | | | | |
| **Comments:** |  | | | |
| Examined by: | | Company (if applicable): | | AVE no.: |
|  | |  | |  |
| Signed: | | Modification certificate no.: | Modification plate no.: | Date: |
|  | |  |  |  |